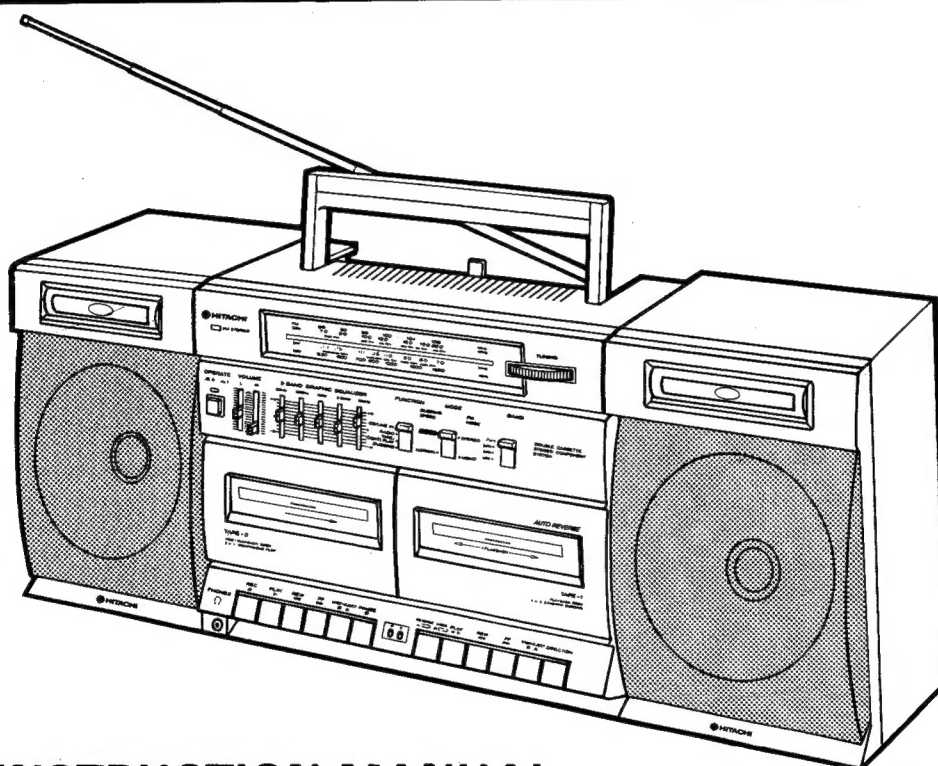




Portable component system

MODEL TRK-W545W.HW



INSTRUCTION MANUAL

使用説明書

MANUAL DE INSTRUCCIONES

صفحة 28 - 37

page 1 - 9

頁 11 - 18

página 20 - 27

دليل التعليمات والتشغيل

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

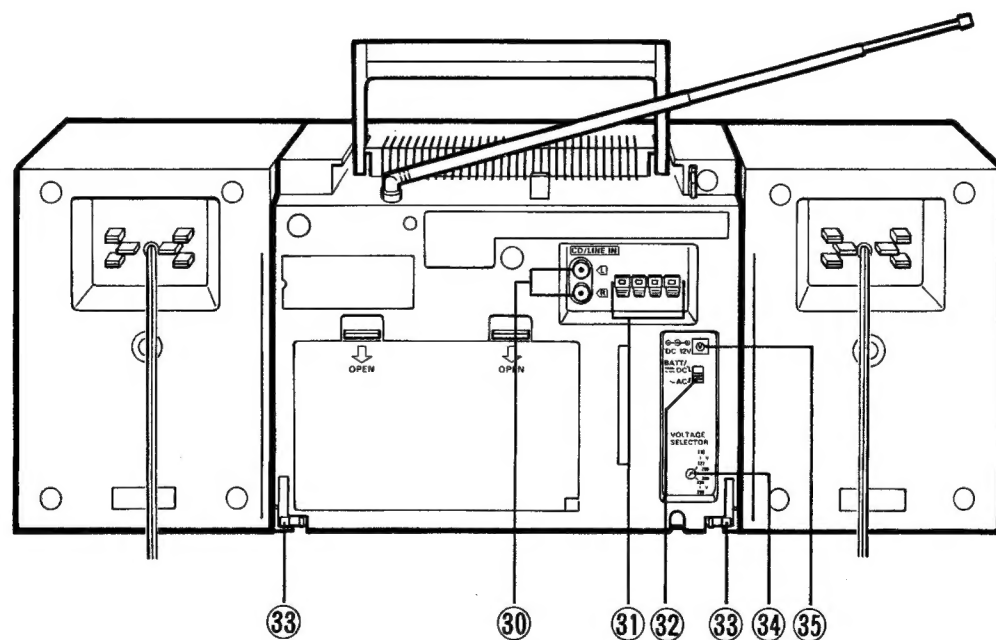
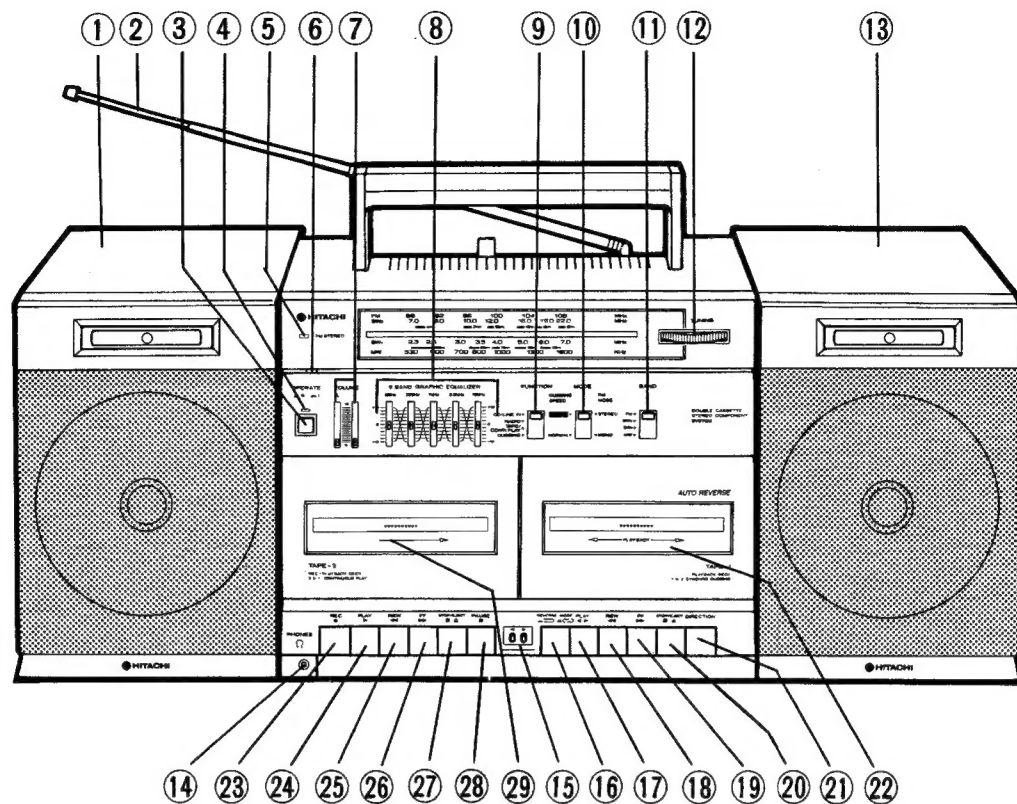
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KEY TO ILLUSTRATIONS

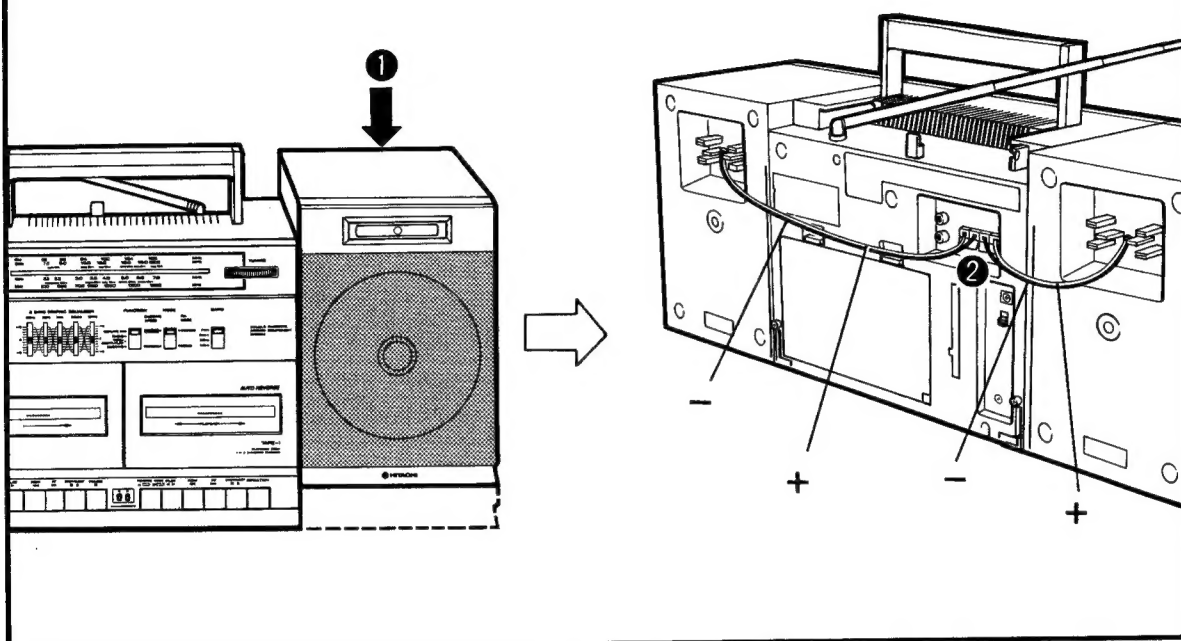
各種按鈕開關及零件名稱

CLAVE PARA LAS ILUSTRACIONES

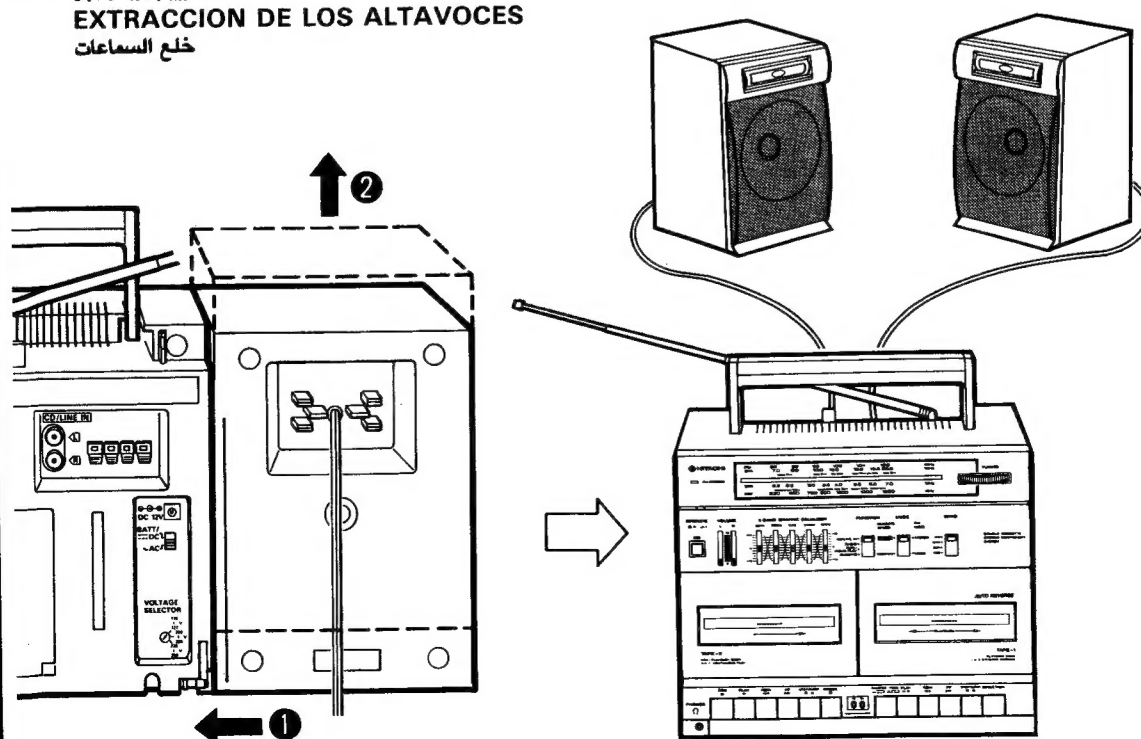
مفتاح للتوضيح



B ASSEMBLING THE SPEAKERS
 揚聲器的安裝
 INSTALACION DE LOS ALTAVOCES
 تجميع السماعات



C REMOVING THE SPEAKERS
 拆卸揚聲器
 EXTRACCION DE LOS ALTAVOCES
 خلع السماعات

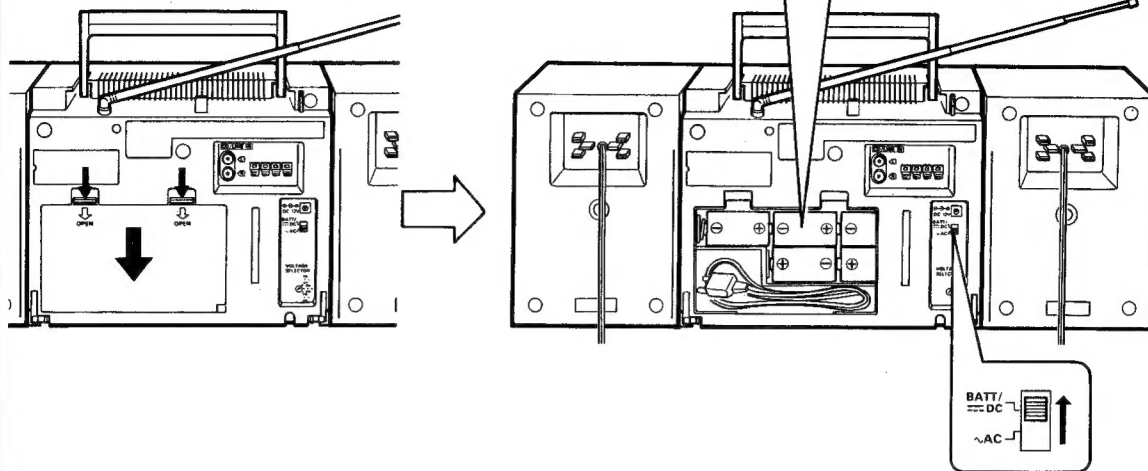


D TO USE WITH BATTERIES

用乾電池供電

USO CON PILAS

للاستخدام على البطاريات



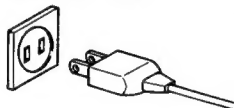
E TO USE WITH HOUSEHOLD AC

用交流電供電

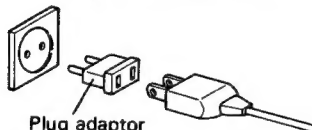
USO CON LA DOMESTICA

الاستخدام بالتيار المنزلي المتردد

AC 110—127V



AC 200—220V, 230—250V



Plug adaptor

插頭用適配器

Adaptador de enchufe

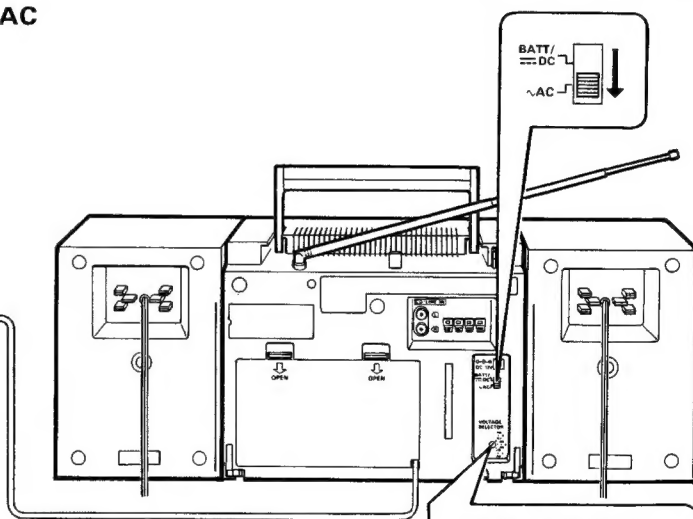
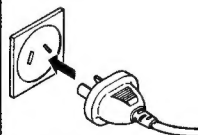
منظم الفيتشة

for Australia AC 240V

在澳大利亞請使用交流240伏。

CA 240V para Australia

لاستراليا تيار متردد ٢٤٠ فولت



VOLTAGE SELECTOR
電壓選擇器
SELECTOR DE VOLTAJE
منتخب انتقاء الفولتاج



110 — 127V



200 — 220V



230 — 250V

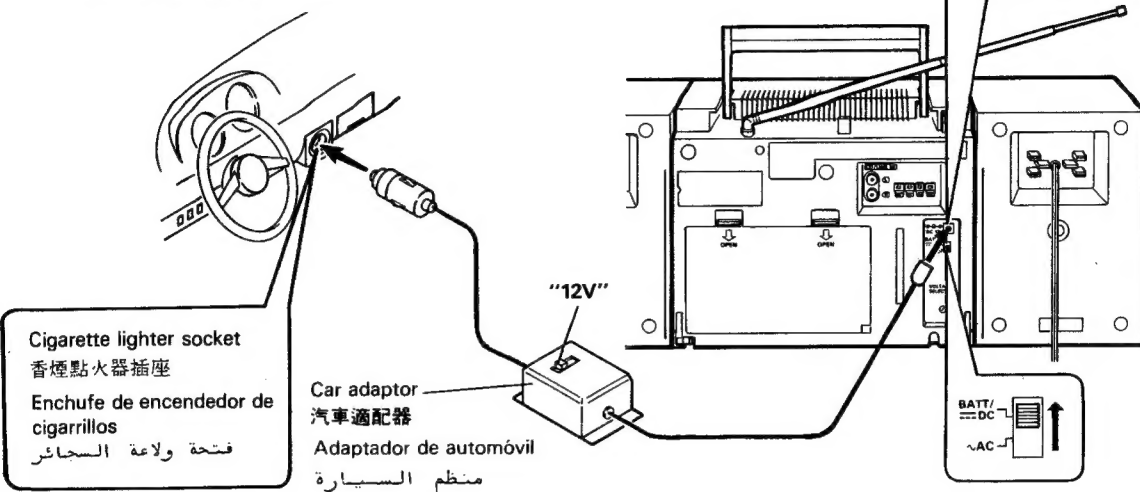
Set the VOLTAGE SELECTOR to your local voltage with the power (mains) lead unplugged.

將電源軟綫拔去，然後把 VOLTAGE SELECTOR (電壓選擇器) 設定於本地交流電壓的位置。

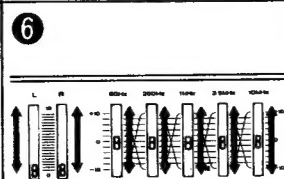
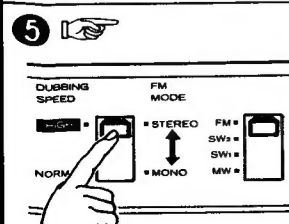
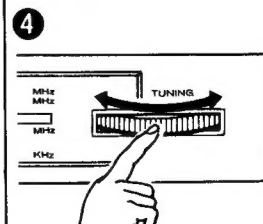
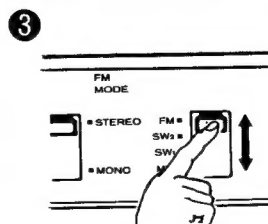
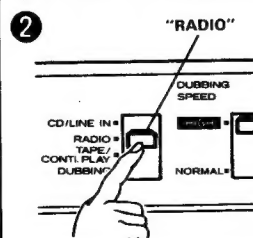
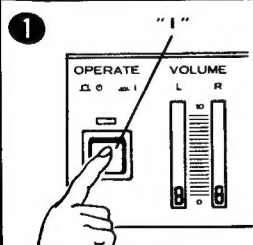
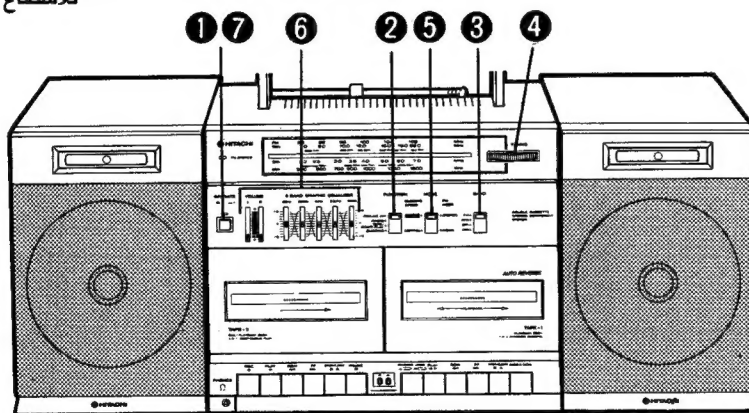
Regule el SELECTOR DE VOLTAJE de acuerdo con el voltaje local teniendo desenchufados los conductores de potencia.

هنا محول انتقاء الفولطية الى الجهد المحلي لديك مع حلك تزويد الجهد (الخط الرئيسي) الغير موصل بالمقبس.

F USE A CAR BATTERY
 用汽車用電池供電
USO CON BATERIA DE AUTOMOVIL
 للاستخدام مع تيار بطارية السيارة



G TO LISTEN TO A RADIO PROGRAMME
 收聽廣播節目
AUDICION DE UNA PROGRAMAS RADIALES
 للاستماع لبرامج الراديو

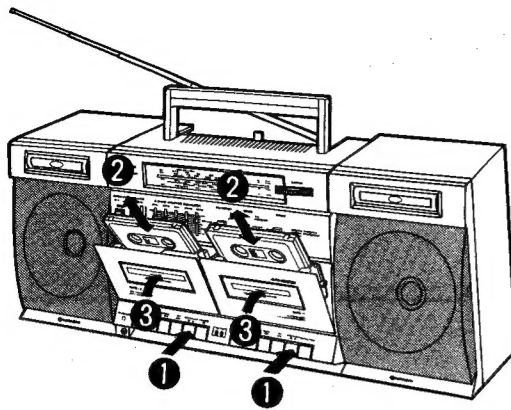


H INSERTION AND REMOVAL OF A CASSETTE

磁帶的裝入和取出

INSERCIÓN Y EXTRACCIÓN DE UN CASETE

ادخال واخراج الكاسيت

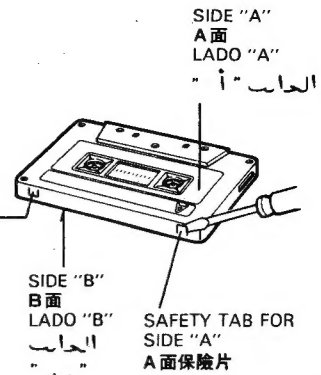


SAFETY TAB FOR
SIDE "B"

B面保險片

LENGÜETA DE SEGURIDAD
DEL LADO "B"

لسان الآمان للجانب
"ب"



SIDE "B"
B面
LADO "B"
الجنب
"ب"

SAFETY TAB FOR
SIDE "A"

A面保險片

LENGÜETA DE SEGURIDAD
DEL LADO "A"

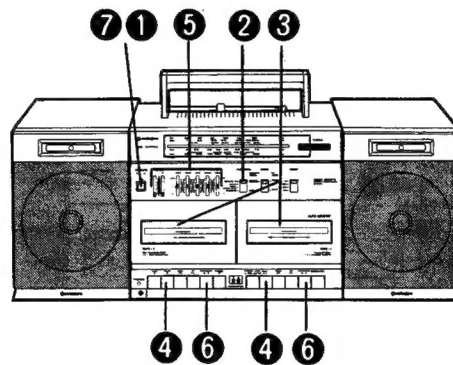
لسان الآمان للجانب
"أ"

I PLAYBACK OF A RECORDED TAPE (TAPE 1, TAPE 2)

播放錄音帶 (錄音座 1, 錄音座 2)

REPRODUCCIÓN DE UNA CINTA GRABADA TAPE 1, TAPE 2)

(الاستماع لشريط مسجل (الشريط 1, الشريط رقم 2)



<p>1</p>	<p>2</p> <p>TAPE/CONTI. PLAY</p> <p>CD/LINE IN RADIO TAPE/CONTI. PLAY DUBBING</p> <p>DUBBING SPEED HIGH NORMAL</p>	<p>3</p>	<p>4</p>
<p>5</p>	<p>6</p>	<p>7</p>	



HITACHI

Portable component system

MODEL TRK-W545W.HW

INSTRUCTION MANUAL

BEFORE USING

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual carefully.

Notice: The switch is secondarily connected and does not separate the apparatus from the mains supply in the switched-off position.
As to the indication of the operate switch "I" shows ON and "⏻" electrical power stand-by.

CONTENTS

FEATURES	3
PRECAUTIONS	3
KEY TO ILLUSTRATIONS	3
HANDLING THE SPEAKERS	3
ASSEMBLING THE SPEAKERS	3
REMOVING THE SPEAKERS	4
POWER REQUIREMENTS	
TO USE WITH BATTERIES	4
TO USE WITH HOUSEHOLD AC	4
TO USE FROM A CAR BATTERY	4
TO LISTEN TO A RADIO PROGRAMME	4
INSERTION AND REMOVAL OF A CASSETTE	5
PLAYBACK OF A RECORDED TAPE (TAPE 1, TAPE 2)	6
CONTINUOUS PLAYBACK (TAPE 1 → TAPE 2)	6
RECORDING (TAPE 2)	
RECORDING A RADIO PROGRAMME	6
RECORDING FROM BUILT-IN MICROPHONE	6
DUBBING (TAPE 1 → TAPE 2)	7
CD PLAYER	
TO LISTEN TO A COMPACT DISC	7
RECORDING FROM A CD PLAYER	7
ERASING (TAPE 2)	7
MAINTENANCE	8
CHECK THE FOLLOWING BEFORE CALLING FOR SERVICE	8
SPECIFICATIONS	9


IMPORTANT SAFEGUARDS

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR AUDIO EQUIPMENT.

(FOR U.S.A.)

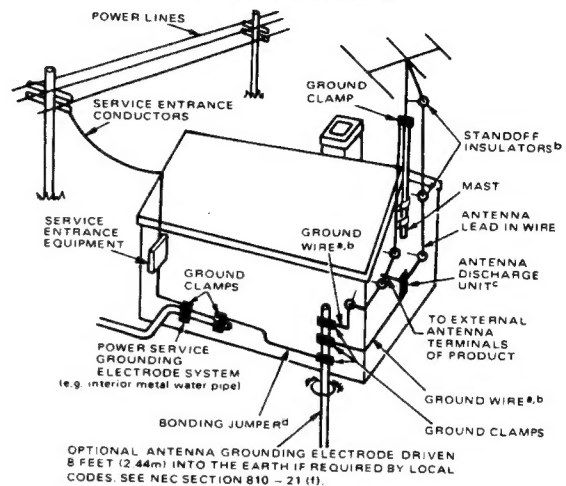
CAUTION:

- **Read all of these instructions.**
- **Save these instructions for later use.**
- **Follow all warnings and instructions marked on the audio equipment.**

1. **Read Instructions** — All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** — The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** — All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** — All operating and use instructions should be followed.
5. **Water and Moisture** — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
6. **Carts and Stands** — The appliance should be used only with a cart or stand that is recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 
7. **Wall or Ceiling Mounting** — The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Heat** — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
9. **Ventilation** — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
10. **Power Sources** — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Grounding or Polarization** — The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
12. **Power-Cord Protection** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** — The appliance should be cleaned only as recommended by the manufacturer.
14. **Power Lines** — An outdoor antenna should be located away from power lines.
15. **Outdoor Antenna Grounding** — If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National

Electrical Code, ANSI/NFPA No. 70—1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 — "RADIO AND TELEVISION EQUIPMENT"



^a Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.

^b Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 m) to 6 feet (1.83 m) apart.

^c Mount antenna discharge unit as close as possible to where lead-in enters house.

^d Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21(j).

16. **Nonuse Periods** — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

17. **Object and Liquid Entry** — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

18. **Damage Requiring Service** — The appliance should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has been spilled into the appliance; or
- C. The appliance has been exposed to rain; or
- D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.

19. **Servicing** — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

FEATURES

- 3-unit portable component system
- Double cassette mechanism
- Auto reverse mechanism (TAPE 1)
- High speed dubbing mechanism
- 5-band graphic equalizer control

PRECAUTIONS

- Disconnect the AC power lead plug from the AC outlet when the unit is not used on AC power for a long period of time or you are away from home.
- If you run the unit from the mains for a long period, or when not using the unit, remove the batteries.
- Do not leave dead batteries in the unit, as they may corrode and cause damage.
- Never use any strong detergents or solvents to clean the unit's casing, since they could damage the surface finish.
- Do not leave in direct sunlight or in extremely hot or humid places.
- The appliance should not be used near the sea, sand and where there is fine dust.

A KEY TO ILLUSTRATIONS

- ① SPEAKER ENCLOSURE (LEFT)
- ② TELESCOPIC ANTENNA (AERIAL)
- ③ OPERATE SWITCH
- ④ OPERATION INDICATOR
- ⑤ FM STEREO INDICATOR
- ⑥ BUILT-IN MICROPHONE (MONAURAL)
- ⑦ VOLUME CONTROLS
- ⑧ GRAPHIC EQUALIZER CONTROLS
- ⑨ FUNCTION SELECTOR
- ⑩ DUBBING SPEED/FM MODE SELECTOR
- ⑪ BAND SELECTOR
- ⑫ TUNING CONTROL
- ⑬ SPEAKER ENCLOSURE (RIGHT)
- ⑭ HEADPHONES SOCKET

TAPE 1

- ⑮ DIRECTION INDICATOR
- ⑯ REVERSE MODE BUTTON
- ⑰ PLAYBACK BUTTON
- ⑱ REWIND BUTTON

- ⑲ FAST FORWARD BUTTON
- ⑳ STOP/EJECT BUTTON
- ㉑ DIRECTION BUTTON
- ㉒ CASSETTE HOLDER

TAPE 2

- ㉓ RECORD BUTTON
- ㉔ PLAYBACK BUTTON
- ㉕ REWIND BUTTON
- ㉖ FAST FORWARD BUTTON
- ㉗ STOP/EJECT BUTTON
- ㉘ PAUSE BUTTON
- ㉙ CASSETTE HOLDER
- ㉚ CD/LINE IN SOCKETS
- ㉛ SPEAKER TERMINALS
- ㉜ AC/BATT. (DC) SELECTOR
- ㉝ SPEAKER ASSEMBLY/REMOVAL TABS
- ㉞ VOLTAGE SELECTOR
- ㉟ DC 12V SOCKET

HANDLING THE SPEAKERS

This set can be used as the portable component system with the speakers attached to the main unit and as a separate component system with the speakers removed from the main unit and installed in any required position.

B ASSEMBLING THE SPEAKERS

- 1 Align the groove in the speaker enclosure with the groove in the side of the main unit and depress the speaker in the direction of the arrow until the speaker assembly/removal tab locks.
- 2 Connect the speaker leads to the speaker terminals.

Be sure to set the OPERATE switch to "⏻" when connecting/disconnecting the speaker leads.

C REMOVING THE SPEAKERS

- 1 Push the speaker assembly/removal tab on the rear of the main unit in the direction of the arrow.
- 2 Slide the speaker enclosure upward to remove it.

POWER REQUIREMENTS

D TO USE WITH BATTERIES

Set the AC/BATT. (DC) selector to "BATT" and insert 8 IEC R20 batteries.

Note: The volume drops and the tape speed gets slower as the batteries are exhausted; replace the batteries when this happens.

E TO USE WITH HOUSEHOLD AC

Set the AC/BATT. (DC) selector to "AC" and insert the AC power (mains) lead plug to the AC outlet.

Note: When the AC/BATT. (DC) selector is not set to "AC" with the batteries left in the compartment, the batteries will be discharged.

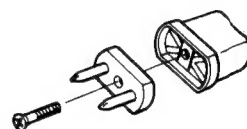
- Set the VOLTAGE selector to your local power (mains) voltage before using this unit.
- Connect the AC power (mains) lead plug to the provided plug adaptor and then insert it into the household AC socket when using the unit in a 200–220V and 230–250V area.

Note: Set the VOLTAGE selector to your local voltage with the power (mains) lead unplugged.

Replacement plug: Replacement plugs are packed in the provided plug adaptor; install the plug fit to your wall socket as shown in the figure to use the adaptor.

Note: Tighten the replacement plug firmly by the screw.


Do not just insert it into the socket; it is dangerous.



F TO USE FROM A CAR BATTERY

- Set the AC/BATT. (DC) selector to "DC" and use a 12V car battery adaptor (option). (⊖ ⊕)
- Use the unit while idling the car engine to prevent the car battery from discharging.

G TO LISTEN TO A RADIO PROGRAMME

- 5  Set the FM MODE selector to "STEREO" when the station is broadcasting an FM stereo programme.
 - When an FM stereo signal is weak or noisy for enjoyable stereo listening, set the FM MODE selector to "MONO" to reduce the noise.

ANTENNA (AERIAL) INFORMATION

FM reception: Extend the telescopic antenna (aerial) to its full length. Change its direction to obtain the best reception.

SW2 reception: Extend the telescopic antenna (aerial) to its full length.

SW1 and MW reception: The built-in ferrite-core antenna (aerial) provides good reception under normal conditions. Rotate the unit to find the position in which the best reception is obtained.

LISTENING INFORMATION

GRAPHIC EQUALIZER controls: The audio spectrum is divided into 5 bands. When each knob is raised, the sound is emphasized, and when each knob is lowered, the sound is attenuated. Adjust them to obtain your favorite tone. The characteristics become flat with the 5 knobs set to the center ("0") positions.

AUTO LOUDNESS system: When the VOLUME control is set to less than "center", the built-in LOUDNESS circuit functions automatically to ensure dynamic sound with the low and high frequencies emphasized.

To listen using HEADPHONES: Connect the headphones to the HEADPHONES socket to enjoy private listening.

H INSERTION AND REMOVAL OF A CASSETTE

NOTE:

- Insert the cassette as shown.
If the cassette is upside down, it cannot be inserted.
- The safety tab must be in place if you want to record. Remove to prevent erasure. If the tab is removed after recording and you wish to erase the tape, cover with cellophane tape.
- Avoid exposing the cassette to direct sunlight. Keep away from a heater, etc.
- Avoid extreme humidity, violent vibrations or shocks, strong magnetic fields (near a motor, transformer or a magnet) and dusty places.
- We advise you not to use C-120 cassette tape.
C-120 tape is thinner, consequently a greater danger exists of problems arising from loose or curled tape and variations in tension.

BEFORE RECORDING AND PLAYBACK

NOTE ON INSTRUCTIONS

TAPE 1 is equipped with an AUTO REVERSE function so that the direction of the tape can be changed without removing the cassette tape. For practical purposes, these instructions will identify playback as (▶), fast forward as (►►) and rewind as (◄◄). When the tape is travelling in reverse direction (◄) will mean reverse playback, (◄◄) as fast forward and (►►) as rewind.

■ REVERSE MODE BUTTON

Both-way mode (two-way mode)

When playback in the forward direction is completed, the auto-reverse mechanism switches to reverse direction. At the end of the reverse side of the tape, the player stops automatically.

Endless mode

Playback will continue switching from forward to reverse and vice versa until the STOP/EJECT button is pressed.

DIRECTION BUTTON: The running direction of the tape in TAPE 1 can be switched every time this button is pressed. The direction indicator (FWD ▶ or REV ◄) shows the tape running direction.

I **PLAYBACK OF A RECORDED TAPE (TAPE 1, TAPE 2)**

TAPE 2 CASSETTE MECHANISM

PAUSE BUTTON

If you want to stop the tape temporarily during recording or playback, press the PAUSE button. To release the pause mode, press the PAUSE button again.

TAPE 1 AND TAPE 2 CASSETTE MECHANISM


STOP/EJECT BUTTON

When this button is pressed while the tape is running, the tape stops.
When the button is pressed in the stop mode, the cassette holder opens.

FAST FORWARD/REWIND BUTTON

To rapidly advance the tape, press the FAST FORWARD button. To rewind the tape, press the REWIND button. Press the STOP/EJECT button after fast forwarding or rewinding.

AUTO STOP MECHANISM




When the tape in TAPE 1 reaches the end in the both-way () playback mode, the tape stops automatically and the button is released. When the tape in TAPE 2 reaches the end in the record and playback modes, the tape stops automatically and the buttons are released. When the tapes in TAPE 1 and TAPE 2 reach the end in the fast forward and rewind modes, the tapes stop but the buttons remain depressed. Press the STOP/EJECT button to release the buttons.

Notes:

- If TAPE 1 is operated while TAPE 2 is playing, the sound played back by TAPE 2 will be interrupted. (TAPE 1 has priority)
- When the operation button (PLAY) of TAPE 2 is pressed while TAPE 1 is playing, the sound may be distorted. Do not operate TAPE 2 while TAPE 1 is playing.

J **CONTINUOUS PLAYBACK (TAPE 1 → TAPE 2)**

This unit is provided with a continuous playback mechanism, so that when the playback of TAPE 1 is completed, playback of TAPE 2 automatically starts.

- ④  Be sure to set the REVERSE MODE button of TAPE 1 to the both-way () mode.
-  If continuous playback is started from the reverse direction of TAPE 1 as soon as the playback on TAPE 1 ends, playback of TAPE 2 begins.

RECORDING (TAPE 2)

K **RECORDING A RADIO PROGRAMME**




- ①  Follow steps ① to ⑤ in "TO LISTEN TO A RADIO PROGRAMME" to obtain the station you wish to record.

L **RECORDING FROM BUILT-IN MICROPHONE**

Note: The sound from the built-in microphone will be recorded in monaural.

M DUBBING (TAPE 1 → TAPE 2)

Dubbing (tape-to-tape recording) is to play back one tape and record its content onto another tape. This unit employs the double cassette system, so the content of TAPE 1 being played back, can be recorded directly onto TAPE 2.



- 2  Insert the tape to be played back into TAPE 1 and the tape to be recorded into TAPE 2.
- 4  Select the DUBBING SPEED selector position.
 - To dub a tape at the normal speed, set the DUBBING SPEED selector to NORMAL.
 - To dub a tape at double the normal speed, set the DUBBING SPEED selector to HIGH.
- 7  Press the STOP/EJECT buttons of TAPE 1 and 2 to stop dubbing.

Note: Do not change over the DUBBING SPEED selector during recording.

This equipment should not be used for taking copies of tapes in breach of copyright. Copyright subsists in most pre-recorded tapes.

CD PLAYER

N TO LISTEN TO A COMPACT DISC

- 1  Connect the output sockets of the CD player and the CD/LINE IN sockets of this unit with a US pin lead.
- 4  Operate the CD player for playing back.

RECORDING FROM A CD PLAYER

Recording cassette tapes is possible while playing a CD.

1. Insert the tape into TAPE 2.
2. Follow steps 1 to 5 shown in "TO LISTEN TO A COMPACT DISC". Pressing RECORD button and PLAYBACK button simultaneously will start recording.

O ERASING (TAPE 2)

When a recording is being made, any sound on the track is automatically erased before the new recording is made.

If you wish to erase a recorded tape, without making a new recording, follow steps 1 — 6 as in the diagram.

Note: Disconnect external programme source before erasing starts.

P MAINTENANCE

In order to keep this unit in its optimum operating condition, clean the heads, capstan and pressure roller periodically with a cleaning stick moistened with alcohol or methylated spirits.

Never use sharp or metallic instruments or tools for cleaning these parts.

The easiest cleaning method is by using a Hitachi head cleaning cassette tape.

All Hitachi Cassettes are provided with piece of head cleaning tape at each end of the tape; therefore, all accumulated dirt and oxide particles are removed automatically at the beginning and end of the tape.

CHECK THE FOLLOWING BEFORE CALLING FOR SERVICE

Before you jump to the conclusion that it's out of order!

When the unit is not operating properly, one is apt to assume that the unit is faulty. There are, however, many possible faults which are not directly attributable to the unit itself. It is recommended to check the following before taking the unit to a Hitachi dealer.

Symptom	Cause
No AC power.	<ul style="list-style-type: none">• Is the AC/BATT. (DC) selector set to "AC"?• Is the power lead connected properly?
No car battery operation.	<ul style="list-style-type: none">• Is the AC/BATT. (DC) selector set to "DC"?
No battery operation. No sound from the speaker or headphones. Tape does not run when a button is pressed.	<ul style="list-style-type: none">• Is the AC/BATT. (DC) selector set to "BATT"?• Are the batteries properly inserted in the battery compartment?• Are the batteries exhausted?
Cassette cannot be inserted.	<ul style="list-style-type: none">• Is the cassette upside down?
No recording.	<ul style="list-style-type: none">• Is the PAUSE button pressed? If so, unlock and release.• Are the accidental-erasure prevention tabs punched out? If so, cover the holes with plastic tape.• Is a cassette inserted in the unit?
Deteriorated sound or irregular tape speed. Slow tape speed or low volume.	<ul style="list-style-type: none">• Clean heads, capstan and pressure roller with a cleaning stick.• Are the batteries exhausted?

SPECIFICATIONS

GENERAL SPECIFICATIONS

Power supply:	AC: 110V to 127V, 200 to 220V, 230V to 250V, 50/60 Hz DC: 12V ["D" cell (IEC R20) x 8 or equivalent] Car: Use 12V car battery adaptor (optional)
Power (mains) consumption:	18W
Speakers:	12 cm, 4 ohms x 2 2 cm, 300 ohms x 2
Output:	60W P.M.P. (AC operation) 3.5W/CH (10% T.H.D. DC operation)
Dimensions:	580(W) x 220(H) x 189(D) mm
Weight:	5.9 kg (with batteries)

RADIO SECTION

Circuit system:	FM/SW2/SW1/MW 4-band superheterodyne
Tuning range:	FM: 88 to 108 MHz SW2: 7.0 to 22.0 MHz SW1: 2.3 to 7.0 MHz MW: 530 to 1605 kHz
Antenna (aerials):	FM/SW2: Telescopic antenna (aerial) SW1/MW: Built-in ferrite-core antenna (aerial)

TAPE RECORDER SECTION

Tape:	Cassette tape
Tape speed:	4.75 cm/s
Recording system:	AC bias ... TAPE 2
Erasing system:	Magnet ... TAPE 2
Playback frequency range:	60 ~ 12,000 Hz
Input sensitivity and impedance:	CD/LINE in: 700 mV, 100 kohms
Output level and load impedance:	Headphones: 8 to 100 ohms Speakers: 4 to 8 ohms

Specifications are subject to change for performance improvement without notice.